CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.02/GSB-2/2017-18 10.04.2017

TEST REPORT ON GRADATION FOR CLOSE-GRADED GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Close Graded-II
Technical Reference	:	IS : 2720 (Part - 4) 1985 (RA-2010), MORTH Table : 400-1
Date of Testing	:	10.04.2017

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	0	0	0	100	100
26.5	325	325	6.50	93.50	70-100
9.5	1730	2055	41.10	58.90	50-80
4.75	640	2695	53.90	46.10	40-65
2.36	625	3320	66.40	33.60	30-50
0.425	580	3900	78.00	22.00	15-25
0.075	645	4545	90.90	9.10	3-10
PAN	455				
Total	5000				

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* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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#23/14, 7th Cross 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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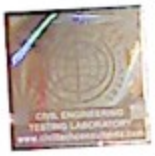
Job No.: CTCE/BBMP/KRIDL/W.No.02/GSB-II/AL/2017-18 Date : 10.04.2017

ATTERBERG LIMITS TEST FOR GSB
MORTH TABLE-400-01

* **Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.
* **Name of Work** : Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* **Reference** : BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017



Date of Testing : 10.04.2017

Sample Source : GSB, Mix Plant

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Basaveshwaranagar, Bangalore-560 079.

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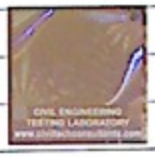
Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-04/310f/DLC/2017-18

19.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	19.04.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.04.2017	19.04.2017	8.253	255.9	11.37
2	12.04.2017	19.04.2017	8.357	235.4	10.46
3	12.04.2017	19.04.2017	8.415	250.2	11.12

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VIDYARANI P.K.
Technical Manager

AEE

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-04/310f/DLC/2017-18 20.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	20.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.04.2017	20.04.2017	8.128	262.5	11.67
2	13.04.2017	20.04.2017	8.226	258.3	11.48
3	13.04.2017	20.04.2017	8.352	235.6	10.47

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AEE

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-04/310f/Cube/2017-18 24.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	24.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2017	24.04.2017	8.129	482.3	21.44
2	17.04.2017	24.04.2017	8.229	493.5	21.93
3	17.04.2017	24.04.2017	8.356	513.6	22.83

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Technical Manager

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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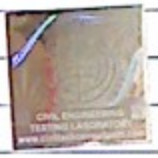
Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-04/310f/Cube/2017-18

24.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	24.04.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2017	24.04.2017	8.298	519.6	23.09
2	17.04.2017	24.04.2017	8.335	516.3	22.95
3	17.04.2017	24.04.2017	8.412	528.7	23.50

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VIDYARANI P.K.
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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/W.No.02/CSR-04/310f/QB(DBM)/2017-18 26.04.2017

TEST REPORT ON DETERMINATION OF BITUMEN CHARACTERISTICS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* PMC Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Bitumen
Source/ Location	:	Hot Mix Plant, Bangalore.
Sample Received on	:	24.04.2017
Period of Testing	:	26.04.2017

The results of the tests conducted on the bitumen sample are as follows:

Sl. No	Description	Test Method as per IS	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	IS :1203 -1978 (RA-2014)	82	80 to 100
2	Softening point, ^{0}C	IS :1205 -1978 (RA-2014)	44	Min. 40
3	Ductility at 27^{0}C, cm	IS :1208 -1978 (RA-2014)	100 >	Min. 75
4	Flash Point, ^{0}C	IS :1209 -1978 (RA-2014)	310	Min. 220

* Information is furnished by the Customer/Representative

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KRIDL/W.No.02/DBM/AIV/2017-18 26.04.2017

TEST REPORT ON AGGREGATE IMPACT VALUE

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the Work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Hot Mix Plant, Bangalore
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	26.04.2017

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	392	393	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	307	307	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	21.68	21.88	21.78

* Information is furnished by the Customer/Representative

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

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Job No.: CTCE/BBMP/KRIDL/W.No.02/DBM/Shape.T/2017-18 26.04.2017

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Hot Mix Plant, Bangalore
Technical Reference	:	IS : 2386(Part -1)-1963 (RA-2011)
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	26.04.2017

Sl.No.	Description	Result
1	Flakiness Index	11.65%
2	Elongation Index	13.90%
3	Combined Flakiness & Elongation Index	25.55%

* Information is furnished by the Customer/Representative

Comments:

→ Maximum allowable Flakiness & Elongation Index for Dense Graded Bituminous Macadam is 30%

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Job No.: CTCE/BBMP/KRIDL/W.No.02/DBM/Stripping/2017-18 27.04.2017

TEST REPORT ON STRIPPING VALUE OF ROAD AGGREGATE (STATIC IMMERSION TEST)

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
Technical Reference	:	IS: 6241
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	27.04.2017

Type of binder : 80/100
Percentage of binder used : 5.0% by wt.
Total weight of aggregate : 200 g
Total weight of binder : 10.00 g
Temperature of water-bath : 40° C

Observation Number	Stripping, Percentage	Average, Percentage	Average Retained Coating, %
1	3.2	3.30	96.70
2	3.3		
3	3.4		

* Information is furnished by the Customer/Representative

Comments:

→ Minimum allowable Aggregate retained coating for Dense Graded Bituminous Macadam is 95%

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#23/14, 7th Cross 3rd Stage 4th Block,
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Basaveshwaranagar, Bangalore-560 079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CCTCE/BBMP/KRIDL/W.No.02/DBM/Sp.Wa/2017-18 27.04.2017

TEST REPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION TEST

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the Work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
Technical Reference	:	IS : 2386(Part -3)-1963 (RA-2011)
* Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	27.04.2017

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2008	2007	2006	
2	Weight of basket suspended in water	W_2 g	750	750	750	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1258	1257	1256	
4	Weight of saturated surface dry aggregate in air	W_3 g	2005	2004	2002	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	747	747	746	
6	Weight of oven dried aggregate	W_4 g	1999	1995	1992	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.676	2.671	2.670	2.672
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.698	2.703	2.707	2.702
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.30%	0.45%	0.50%	0.42%

* Information is furnished by the Customer/Representative

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Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%

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#23/14, 7th Cross, 3rd Stage, 4th Block,
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Basaveshwaranagar, Bangalore-560 079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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BSCIC ISO 9001 REGISTERED JAS-ANZ

Job No.: CTCE/BBMP/KRIDL/W.No.02/DBM/Bitumen/2017-18 27.04.2017

TEST REPORT ON BITUMEN CONTENT OF DENSE GRADED BITUMINOUS MACADAM MIX

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the Work	:	Providing Asphalting to Nagenahalli Main and Cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore..
* Reference	:	BBMP/EE(YNK.D)/W.O/136/2016-17 Dated: 31.03.2017
* Sample ID	:	Asphalting to roads in Nagenahalli, Ward No.02.
Technical Reference	:	IRC:SP:11-1984
Date of Testing	:	27.04.2017

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	478	476
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	22	24.00
7. Bitumen content in %	4.40	4.80
8. Average	4.60	

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⇒ This test report should not be reproduced except in full, without written approval of the laboratory

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Civil-tech Consultants & Engineers
#23/14, 7th Cross 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.